

C.O.C 51

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132
20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

(425) 420-9200 X 420-9210
(509) 924-9200 X 924-9290
(503) 906-9200 FAX 906-9210
(541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #: M1 06007

CLIENT: Bristol		INVOICE TO: Bristol	
REPORT TO: Anne Krawinkel		P.O. NUMBER: 21090	
ADDRESS: Amchitha Island, AK			
PHONE: 770-0974	FAX: 770-0975		
PROJECT NAME: Bristol	REQUESTED ANALYSES		
PROJECT NUMBER: 21090			
SAMPLED BY: ARK/crm			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME		
1. 01AMC502SL	6/4/01 1530	✓	
2. 01AMC503SL	6/4/01 1533	✓	
3. 01AMC504SL	6/4/01 1536	✓	
4. 01AMC505SL	6/4/01 1539	✓	
5. 01AMC506SL	6/4/01 1542	✓	
6. 01AMC507SL	6/4/01 1545	✓	
7. 01AMC508SL	6/4/01 1550	✓	
8. 01AMC509SL	6/4/01 1553	✓	
9. 01AMC510SL	6/4/01 1556	✓	
10.			
11.			
12.			
13.			
14.			
15.			
RELINQUISHED BY: Charlie Marshall	FIRM: Bristol	DATE: 6/4/01	RECEIVED BY: Stephen Wil
PRINT NAME: Charlie Marshall		TIME: 1635	PRINT NAME: Stephen Wil
RELINQUISHED BY:	FIRM:	DATE:	RECEIVED BY:
PRINT NAME:		TIME:	PRINT NAME:
ADDITIONAL REMARKS:		FIRM:	
COC REV 3/99		TEMP:	PAGE OF

TURNAROUND REQUEST in Business Days*

Organic & Inorganic Analyses

10 7 5 4 3 2 1 <1

STD.

Petroleum Hydrocarbon Analyses

5 4 3 2 1 <1

STD.

OTHER

Please Specify

*Turnaround Requests less than standard may incur Rush Charges.

MATRIX
(W, S, O)

OF
CONT.

COMMENTS

NCA WO
ID



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

6 December, 2001

Anne Kranawetter
Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 06/04/01 16:36. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson
Environmental Group Leader

Work Orders included in this report:

M106007



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/07/01 13:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMC5025L	M106007-01	Soil	06/04/01 15:30	06/04/01 16:36
01AMC5035L	M106007-02	Soil	06/04/01 15:33	06/04/01 16:36
01AMC5045L	M106007-03	Soil	06/04/01 15:36	06/04/01 16:36
01AMC5055L	M106007-04	Soil	06/04/01 15:39	06/04/01 16:36
01AMC5065L	M106007-05	Soil	06/04/01 15:42	06/04/01 16:36
01AMC5075L	M106007-06	Soil	06/04/01 15:45	06/04/01 16:36
01AMC5085L	M106007-07	Soil	06/04/01 15:50	06/04/01 16:36
01AMC5095L	M106007-08	Soil	06/04/01 15:53	06/04/01 16:36
01AMC5105L	M106007-09	Soil	06/04/01 15:56	06/04/01 16:36

COC # 51

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

1 of 5



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/07/01 13:22

Hydrocarbon Identification per NW-TPH Methodology North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMC5025L (M106007-01) Soil					Sampled: 06/04/01 Received: 06/04/01				
Gasoline Range Hydrocarbons	ND	9.50	mg/kg	1	NWTPH HCID	06/05/01	06/06/01	0106017	
Diesel Range Hydrocarbons	218	23.7	"	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	102	47.5	"	"	"	"	"	"	
<i>Surr: 1-Chlorooctadecane</i>	<i>118 %</i>	<i>50-150</i>							
01AMC5035L (M106007-02) Soil					Sampled: 06/04/01 Received: 06/04/01				
Gasoline Range Hydrocarbons	ND	9.43	mg/kg	1	NWTPH HCID	06/05/01	06/05/01	0106017	
Diesel Range Hydrocarbons	386	23.6	"	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	ND	47.2	"	"	"	"	"	"	
<i>Surr: 1-Chlorooctadecane</i>	<i>113 %</i>	<i>50-150</i>							
01AMC5045L (M106007-03) Soil					Sampled: 06/04/01 Received: 06/04/01				
Gasoline Range Hydrocarbons	6110	98.0	mg/kg	1	NWTPH HCID	06/05/01	06/05/01	0106017	R-05
Diesel Range Hydrocarbons	30900	245	"	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	ND	490	"	"	"	"	"	"	
<i>Surr: 1-Chlorooctadecane</i>	<i>NR</i>	<i>50-150</i>							<i>S-02</i>
01AMC5055L (M106007-04) Soil					Sampled: 06/04/01 Received: 06/04/01				
Gasoline Range Hydrocarbons	5380	99.4	mg/kg	1	NWTPH HCID	06/05/01	06/05/01	0106017	R-05
Diesel Range Hydrocarbons	11400	249	"	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	569	497	"	"	"	"	"	"	
<i>Surr: 1-Chlorooctadecane</i>	<i>145 %</i>	<i>50-150</i>							
01AMC5065L (M106007-05) Soil					Sampled: 06/04/01 Received: 06/04/01				
Gasoline Range Hydrocarbons	4570	97.7	mg/kg	1	NWTPH HCID	06/05/01	06/05/01	0106017	R-05
Diesel Range Hydrocarbons	2560	244	"	"	"	"	"	"	
Heavy Oil Range Hydrocarbons	1050	488	"	"	"	"	"	"	
<i>Surr: 1-Chlorooctadecane</i>	<i>122 %</i>	<i>50-150</i>							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/07/01 13:22

Hydrocarbon Identification per NW-TPH Methodology North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
---------	--------	--------------------	-------	----------	--------	----------	----------	-------	-------

01AMC5075L (M106007-06) Soil

Sampled: 06/04/01 Received: 06/04/01

Gasoline Range Hydrocarbons	644	9.74	mg/kg	1	NWTPH HCID	06/05/01	06/06/01	0106017
Diesel Range Hydrocarbons	1140	24.3	"	"	"	"	"	"
Heavy Oil Range Hydrocarbons	315	48.7	"	"	"	"	"	"

Surr: 1-Chlorooctadecane 126 % 50-150

01AMC5085L (M106007-07) Soil

Sampled: 06/04/01 Received: 06/04/01

R-05

Gasoline Range Hydrocarbons	560	93.6	mg/kg	1	NWTPH HCID	06/05/01	06/05/01	0106017
Diesel Range Hydrocarbons	4650	234	"	"	"	"	"	"
Heavy Oil Range Hydrocarbons	ND	468	"	"	"	"	"	"

Surr: 1-Chlorooctadecane 132 % 50-150

01AMC5095L (M106007-08) Soil

Sampled: 06/04/01 Received: 06/04/01

Gasoline Range Hydrocarbons	283	8.72	mg/kg	1	NWTPH HCID	06/05/01	06/06/01	0106017
Diesel Range Hydrocarbons	321	21.8	"	"	"	"	"	"
Heavy Oil Range Hydrocarbons	382	43.6	"	"	"	"	"	"

Surr: 1-Chlorooctadecane 119 % 50-150

01AMC5105L (M106007-09) Soil

Sampled: 06/04/01 Received: 06/04/01

Gasoline Range Hydrocarbons	ND	9.55	mg/kg	1	NWTPH HCID	06/05/01	06/05/01	0106017
Diesel Range Hydrocarbons	34.3	23.9	"	"	"	"	"	"
Heavy Oil Range Hydrocarbons	105	47.8	"	"	"	"	"	"

Surr: 1-Chlorooctadecane 111 % 50-150

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/07/01 13:22

Hydrocarbon Identification per NW-TPH Methodology - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch 0106017 - TPH-HCID (WA)

Blank (0106017-BLK1)

Prepared & Analyzed: 06/05/01

Gasoline Range Hydrocarbons	ND	10.0	mg/kg
Diesel Range Hydrocarbons	ND	25.0	"
Heavy Oil Range Hydrocarbons	ND	50.0	"

<i>Surr: 1-Chlorooctadecane</i>	<i>10.7</i>		<i>"</i>	<i>10.0</i>	<i>107</i>	<i>50-150</i>
---------------------------------	-------------	--	----------	-------------	------------	---------------

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
06/07/01 13:22

Notes and Definitions

R-05 Reporting limits raised due to dilution necessary for analysis.

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

5 of 5

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M106007 FINAL 06 07 01 1322.mdb Default Report (not modified)
M106007-03	NW-HCID mod		R-05
M106007-03	NW-HCID mod	1-Chlorooctadecane	S-02
M106007-03	NW-HCID mod	1-Chlorooctadecane	Exceeds upper control limit
M106007-04	NW-HCID mod		R-05
M106007-05	NW-HCID mod		R-05
M106007-07	NW-HCID mod		R-05